

Notice of Allowability

Application No.

10/830,215

Examiner

Jean E. Lesperance

Applicant(s)

IWASAKI, EIJI

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed April 22, 2004.
2. ☒ The allowed claim(s) is/are 1-31.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 4/22/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


RICHARD HJERPE

UNITED STATES PATENT EXAMINER
2629

DETAILED ACTION

1. The application filed April 22, 2004 is presented for examination and claims 1-31 are pending.

Allowable Subject Matter

2. Claims 1 to 31 are allowed.
3. The following is an examiner's statement of reasons for allowance: the claimed invention is directed to a liquid crystal display panel apparatus.

Independent claim 1 identifies a uniquely distinct feature "a driving unit for receiving image data and said plurality of voltages output by said reference voltage generating unit and for selectively outputting one of said plurality of voltages and a plurality of voltages generated therefrom by voltage division by using resistors according to a value of said image data, for applying the voltage to a terminal of a pixel of a liquid crystal display panel".

Independent claim 2 identifies a uniquely distinct feature "a driving unit for receiving image data and said plurality of voltages output by said reference voltage generating unit and for selectively outputting one of said plurality of voltages and a plurality of voltages generated therefrom by voltage division by using resistors according to a value of said image data, for applying the voltage to a terminal of a pixel of a liquid crystal display panel, as well as for outputting a median voltage between the

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first potential and the second potential for applying the voltage to the other terminal of a pixel of said liquid crystal display panel”.

Independent claim 3 identifies a uniquely distinct feature “a driving unit for receiving image data and said plurality of voltages output by said reference voltage generating unit and for selectively outputting one of said plurality of voltages and a plurality of voltages generated therefrom by voltage division by using resistors according to a value of said image data, for applying the voltage to a terminal of a pixel of a liquid crystal display panel, as well as for outputting the first potential in the first mode and the second potential in the second mode for applying the voltage to the other terminal of a pixel of said liquid crystal display panel.”

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Morita (Patent # 7,106,321).

The closest art, Morita as discussed above, either singularly or in combination, fails to anticipate or render obvious the above limitations obvious.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (571) 272-7692. The examiner can normally be reached on from Monday to Friday between 10:00AM and 6:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

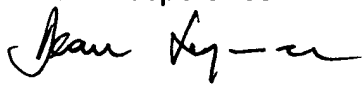
or faxed to:

(571) 273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance



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Date 4/9/2007



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHN. CTR. 2600